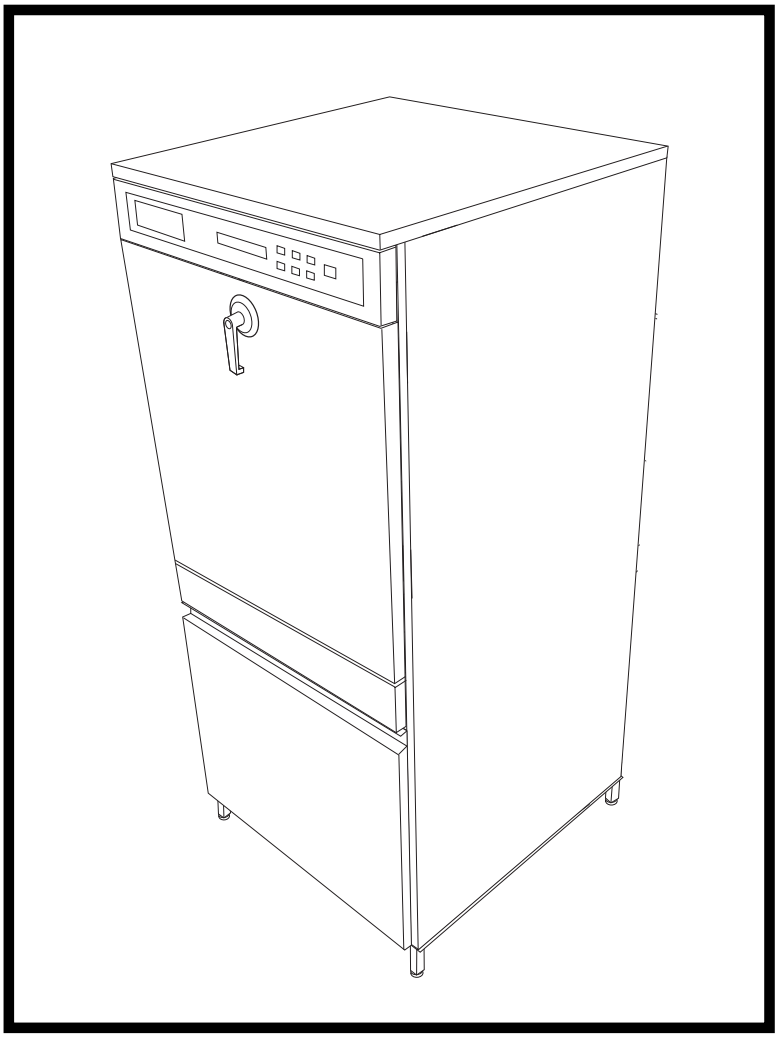
OPERATING INSTRUCTIONS



Decomat 4656

Serial No. 701600 -

4997989-02

GETINGE DISINFECTION

CE 0301

Produced: 1998

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Safety rules

This machine is designed with a number of integrated safety devices. To avoid personal injury it is essential that the safety devices are not bypassed or in any other way put out of action.

General safety rules

- The machine should be connected according to the instructions.
- The machine may not by used by juveniles.
- Installation work and servicing should be carried out by staff trained to use this machine.
- The lid lock of the machine may not be bypassed under any circumstances.
- Leakage in the system, eg, due to worn lid gasket, must be repaired immediately.
- Personnel concerned must study valid handbooks and service manuals prior to any repairs or service work.
- All plug-in leads must be unplugged from all of the circuit boards of the control system before any welding on or close to the dishwasher is started.
- The machine may not be sprayed with water.
- Caution must be observed when using corrosive detergents.
- Safety precautions must be observed when using hot water or steam.

Power cut-off device

The machine must always be provided with a separate power cut-off device in the power supply line, easily accessible on the wall.

Caution symbols

This manual contains certain warnings, instructions and advice of such importance that they are particularly emphasized. The configuration and use of the appertaining symbols are as follows:

This symbol indicates a warning in the text. It gives warning of dangers which could lead to minor or major injury to the person and even to a fatality.

It is also used for warnings to avoid damage to the machine.

Decomat 4656

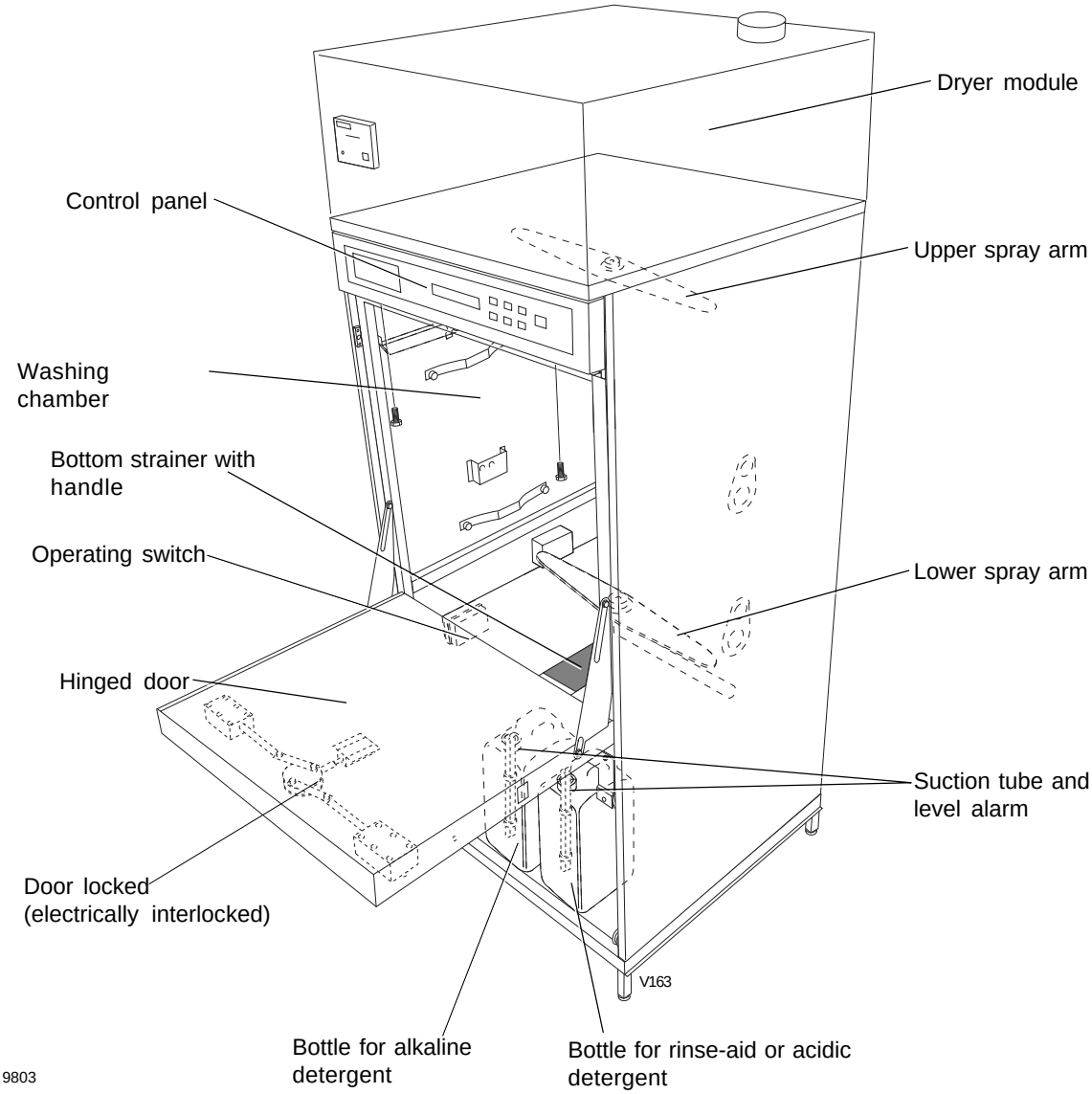
The Decomat 4656 is a fully automatic washer disinfector for the cleaning and disinfecting of contaminated dishware in hospitals, laboratories and the pharmaceutical industry.

The machine is provided with three spray arms and can be equipped with a variety of accessories for different cleaning requirements. These accessories are presented in a separate accessories catalogue.

Several options are available with regard to installation to suit the range of use intended:

- Electric or steam heating.
- Connection of distilled or deionized water.
- With or without built-in drying system.
- Single or double doors.
- Extra dispenser pump, eg, to permit chemical disinfection of heat sensitive goods.

Decomat 4656 is tested and approved in compliance with the recommendations of SPRI (Swedish Planning and Rationalization Institute of the Health and Social Services) and BGA.



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Programming device

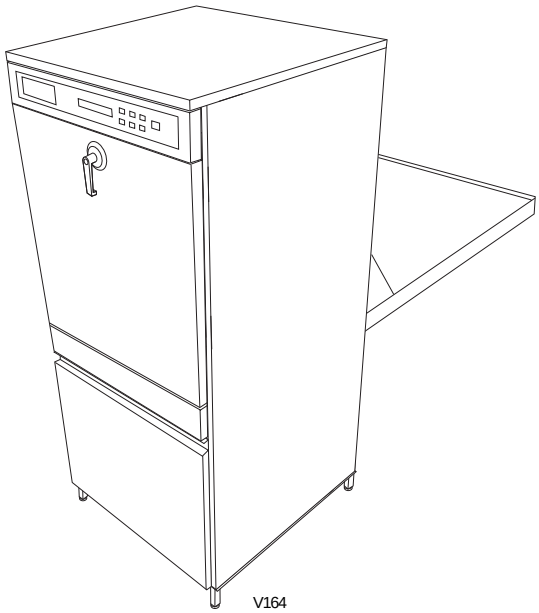
The machine is fitted with an electronic programmable device which can contain a maximum of 60 different programs. Six of these programs can be chosen using the program selection buttons.

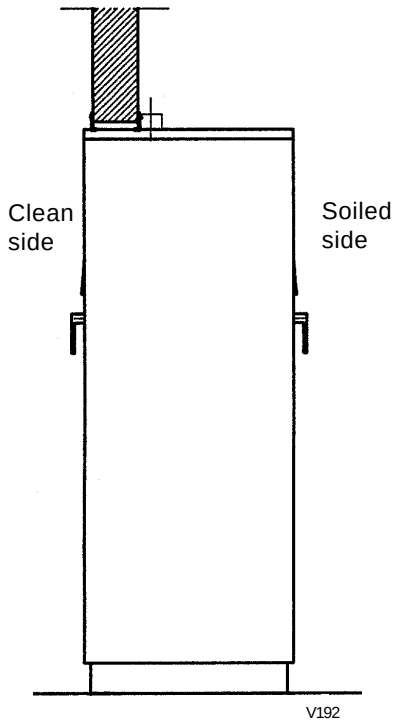
A number of standard programs are included in the programming device on delivery (see section, Standard programs). These programs can be modified to suit individual customer requirements. Furthermore, completely new individual programs can be programmed directly into the machine from the machine control panel. If desired, the whole or parts of a standard program can be used as the basis for programming.

Programming may only be carried out by authorized personnel.

Door function

Decomat 4656 can be provided with one or two doors. Doors are fitted with an electrical interlocking system to prevent opening during the program sequence.

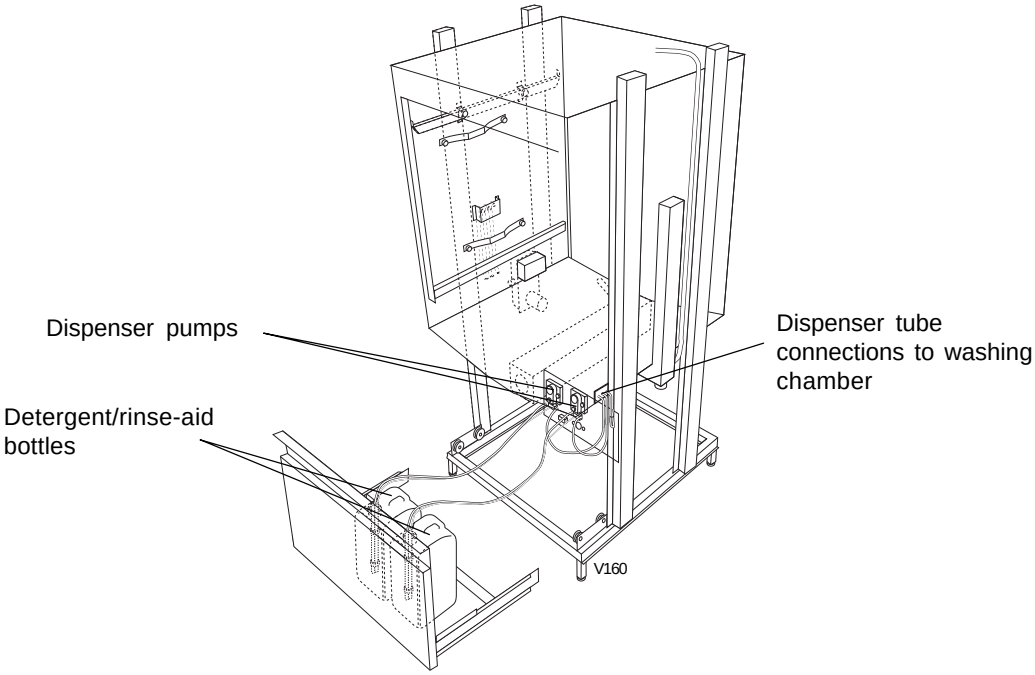




Two doors are required where it is necessary to separate the soiled and cleaned side of the machine. Operation will then be as follows:

It is never possible to open both doors at the same time. The door on the soiled side remains unlocked prior to starting and the door on the cleaned side will be locked. Both doors are locked on pressing the starting button. On completion of the program sequence, the door on the clean side will unlock but the other door will remain locked. The cleaned dishware can then be removed whereafter the door should be closed again, causing it to lock and the door on the soiled side to unlock in preparation for the next sequence.

Dispenser system



In its standard version the machine has two different dispenser systems. One system for alkaline detergent and one system for rinse-aid or acidic detergent. The size of the dispenser dose can be individually set for each program and each separate part of the program.

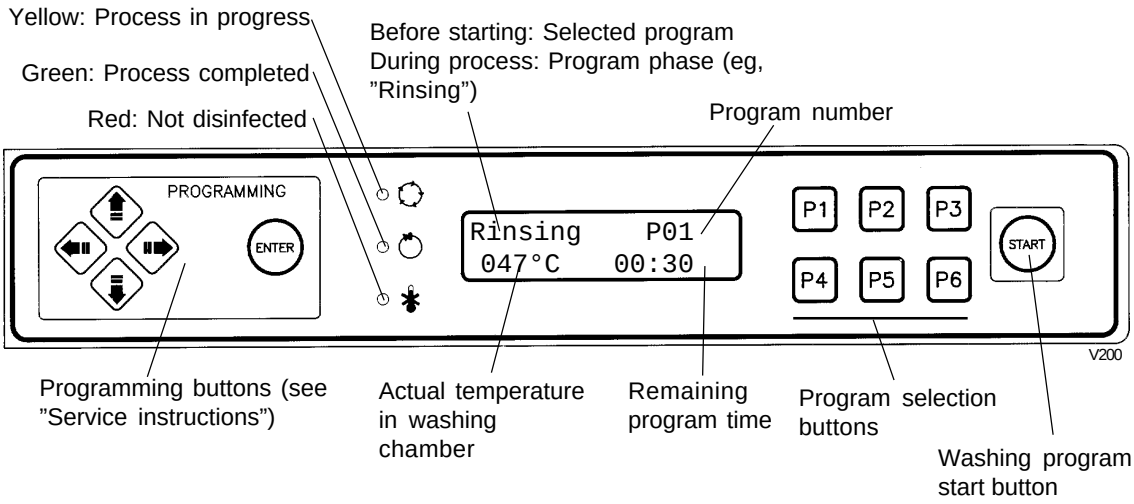
The machine cannot be started if the detergent bottle is empty. The message "`FILL DETERGENT`" will be displayed when the detergent bottle becomes empty.

A third dispenser system can be installed if required, eg, for chemical disinfection of heat-sensitive dishware.

Drying

If the machine is not provided with drying, it is recommended that the dishware is dried in a separate dryer cabinet.

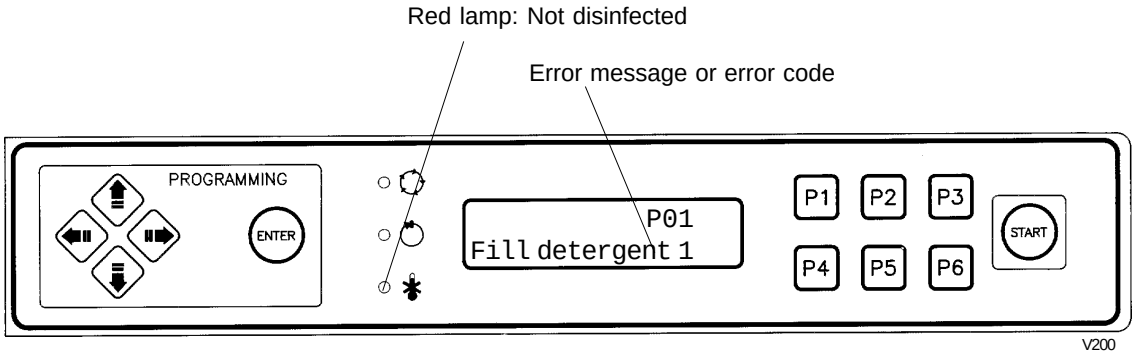
Operation



- Place the dishware in the trolley and roll it into the machine. How to arrange the dishware on the trolley is demonstrated in the goods arrangement chart.
- Ensure that the spray arms can rotate freely without touching the dishware. Close the door.
- Choose a program using the program selector buttons P1- P6. The upper line of the display will then show the name and number of the program chosen. If no program is available under the program button that was chosen, the message ”NOT PROGRAMMED” will be displayed.
- Press the START button. The yellow lamp will light throughout the program sequence, and the current phase of the program, eg, ”Rinsing”, the actual temperature and the remaining program time will be displayed.
- On completion of the program, the green lamp will light and the door will be unlocked (door on the cleaned side if fitted with two doors).
- Empty the machine (and close the door on the cleaned side if fitted with two doors).
- If the same program is to be repeated it is not necessary to press a program selector button, just press the START button.
- If the same program is to be repeated it is not necessary to press a programselector button, just press the START buttom.
- The yellow lamp will flash for 10 seconds when the START buttom is pressed. During this period the program can be interrupted by pressing START once more.

Note.
The display window goes dark after 30 minutes and i automatically activated again on starting or when choosing a program.

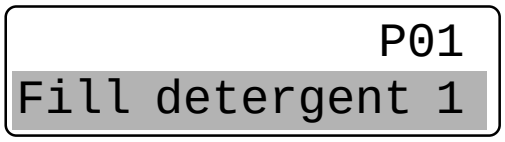
Error indication



Red lamp lights

If the red lamp lights at , this is an indication that disinfection is aborted because the temperature is too low. Contact maintenance personnel.

Error messages

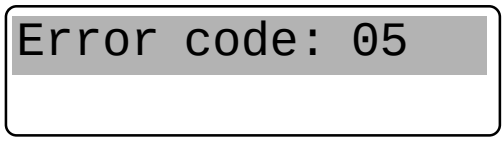


Error messages are displayed in clear text. The machine cannot be started until the error is rectified. The following error messages can occur:

CHOOSE PROGRAM	START button has been pressed before choosing a program.
NOT PROGRAMMED	No program available for the program button P1 - P6 chosen.
CLOSE THE DOOR	START button pressed while door is open.
FILL DETERGENT 1	Detergent bottle 1 is empty and the START button has been pressed.
FILL DETERGENT 2	Detergent bottle 2 is empty and the START button has been pressed.
FILL DETERGENT 3	Detergent bottle 3 is empty and the START button has been pressed.

Note.
When the error message "Fill detergent" appers, there is always sufficient detergent left for one program.

Error codes (F-codes)



The error codes indicate a serious malfunction in the washing sequence. Such errors must be attended to by authorized personnel.

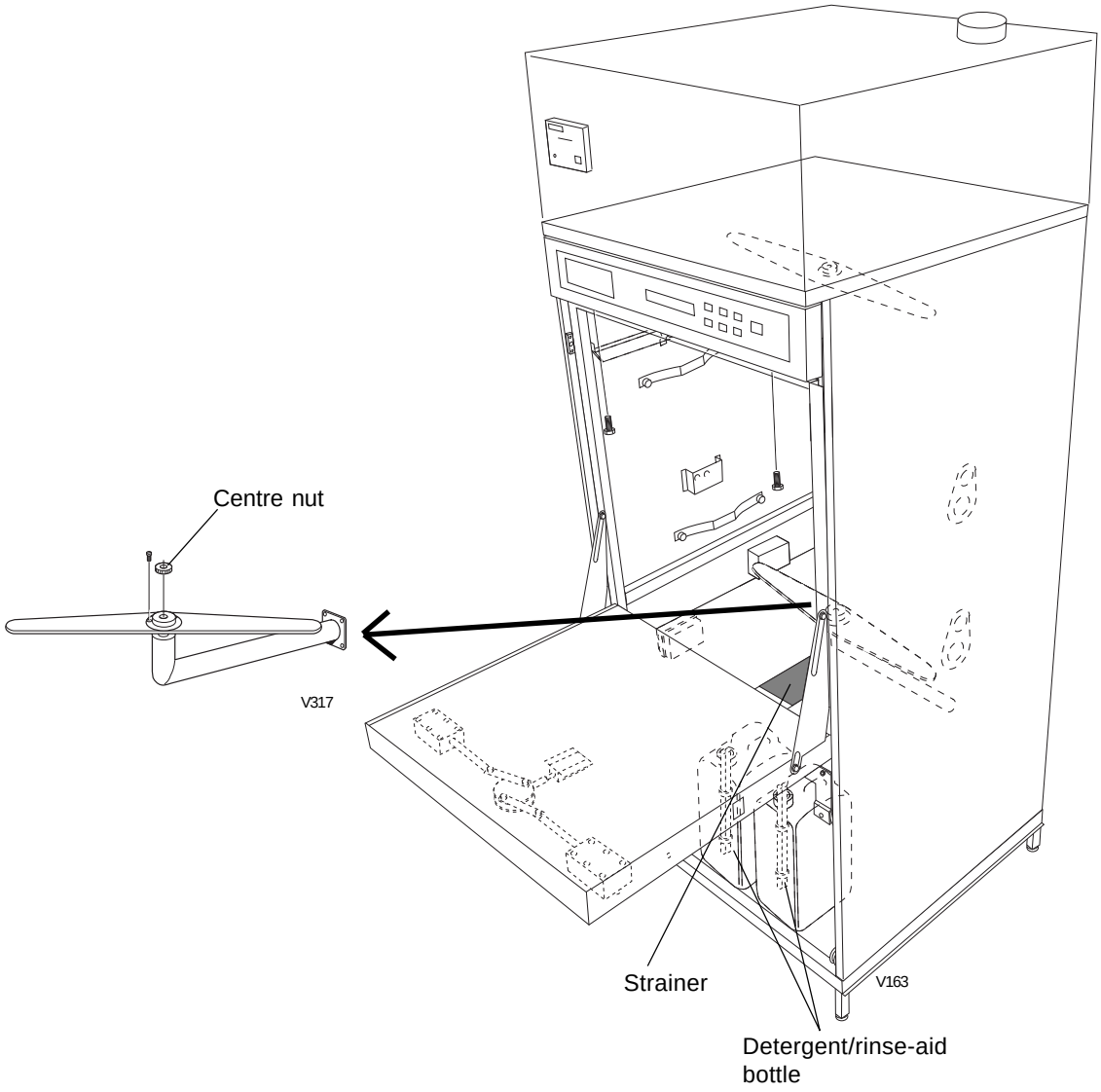
The following error codes can appear:

Code	Fault	Comments
1	Filling with water too slow	Water level sensor not activated within 10 minutes from commencement of filling.
2	Heating of water too slow	Water not heated 10°C from initial temperature within 8 minutes from commencement of heating.
3	Draining not working.	Water level sensor still activated at end of programmed draining period.
4	Drying air temperature too low.	Air temperature below 62°C after 15 minutes drying.
5	Faulty temperature sensor.	Displayed temperature below 0°C or above 110 °C.
7	Motor circuit breaker triggered.	Motor circuit breaker for the circulation pump is triggered.
8	Malfunctioning door, soiled side.	Sensor ”Door closed” in the lock is not activated.
9	Malfunctioning door, cleaned side.	Sensor ”Door closed” in the lock is not activated.
12	Water leakage in drying section.	Level sensor in drying section activated while circulation pump is running.

Acknowledgement of error code

After rectifying an error, press the START button for at least 5 seconds to reset the code.

Maintenance

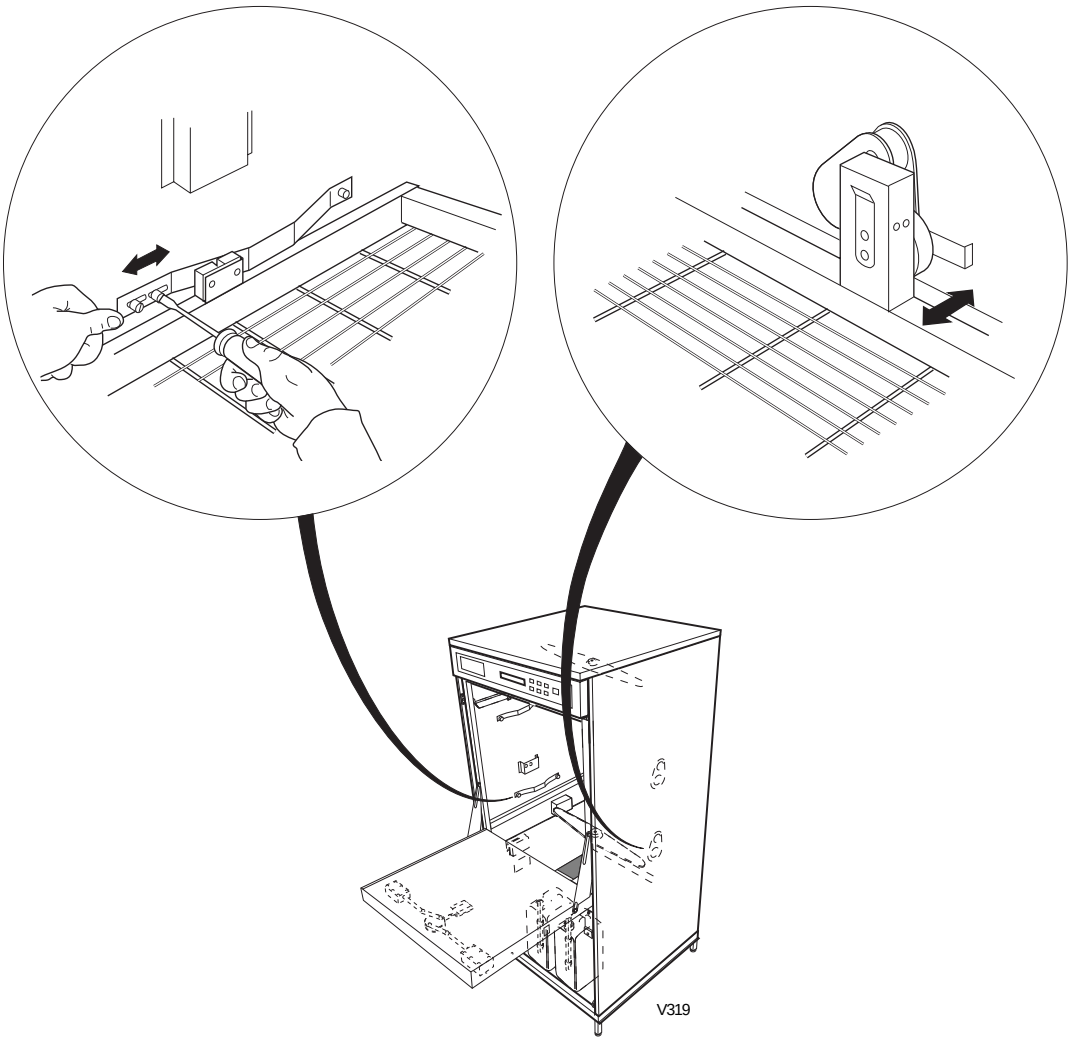


Daily

- Check that no objects have fallen down at the bottom of the washing chamber.
- Check that the spray arms can rotate freely. Check that holes in the spray arms are not blocked.

  If necessary, the spray arms can be cleaned, by removing the centre nut, removing the arm, and flushing clean. Check that the arm can rotate freely when reassembled.
- Remove and clean the coarse filter in the bottom of the flushing chamber.
- Check that there is detergent/rinse aid in the containers.
- Ensure that the dishware trolley locates properly to the water connectors. Adjust the tension spring if the trolley does not locate properly.

If necessary



The washing chamber

The washing chamber should be kept free of limescale deposits. Remove remaining deposits by spraying on a normal acid-based detergent. Then run a program to cleanse the washing chamber (if the correct dosage of descaling compound is used, this should not normally be necessary).

The exterior

The front and side walls can be cleaned and disinfected with an alcohol-based detergent, surgical spirit, or normal detergent. The control panel can be cleaned in the same way.

Remove marks with ordinary stain-remover for stainless steel.

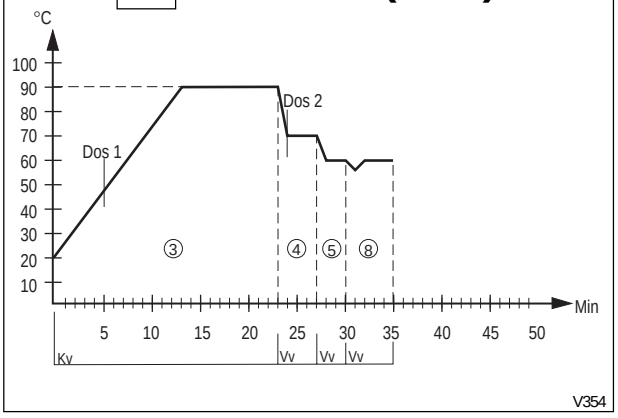
If the disinfector is used without automatic descaling, the steam generator must be checked regularly for limescale deposits.

Standard programs

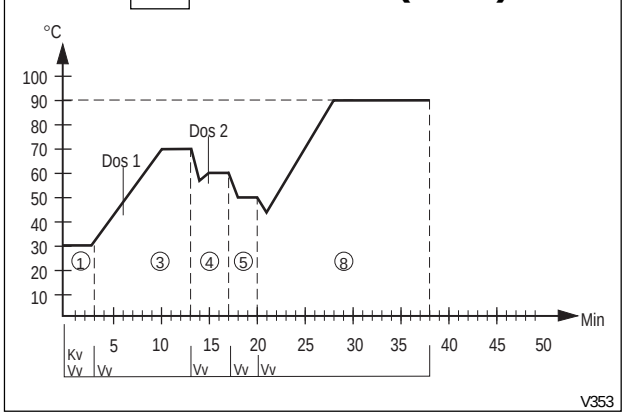
The following pages show the programs that are included in the machine on delivery. The programs will vary depending on the initial range of use intended and the equipment fitted.

Machine for hospitals, without drying function

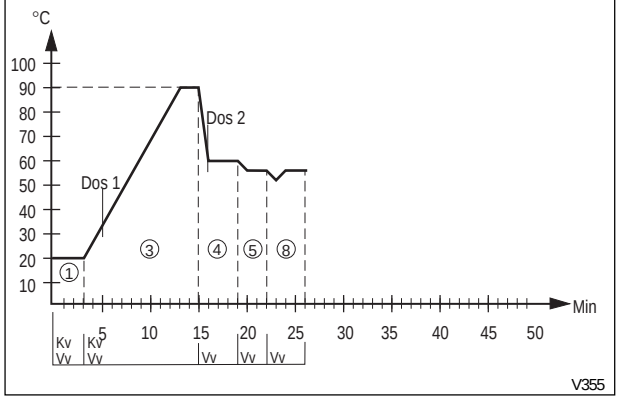
1 OP-BGA (A+B)



2 AN-BGA (A+B)



3 OP-BGA (A)



4, 5 and 6 Not programmed

Program phases

①	Initial rinse 1	⑥	After rinse 2
②	Initial rinse 2	⑦	After rinse 3
③	Washing	⑧	Final rinse
④	Neutralizing	⑨	Drying
⑤	After rinse 1		

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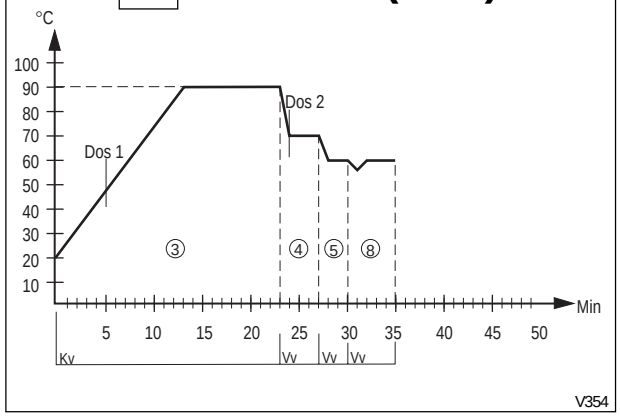
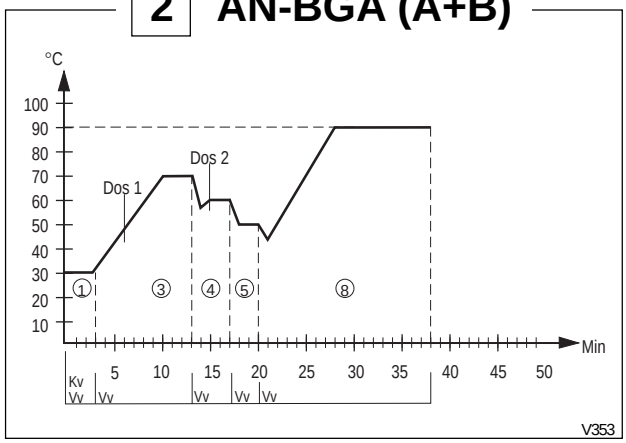
Machine for hospitals, with drying function

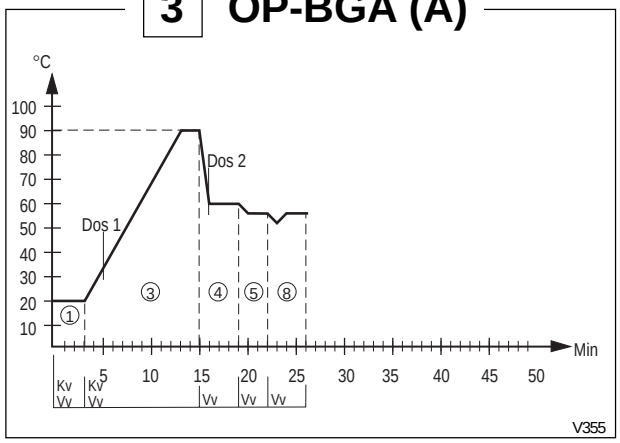
1 OP-BGA (A+B)



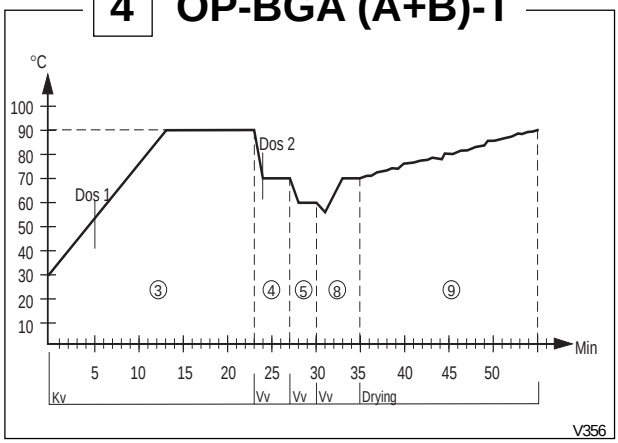
2 AN-BGA (A+B)



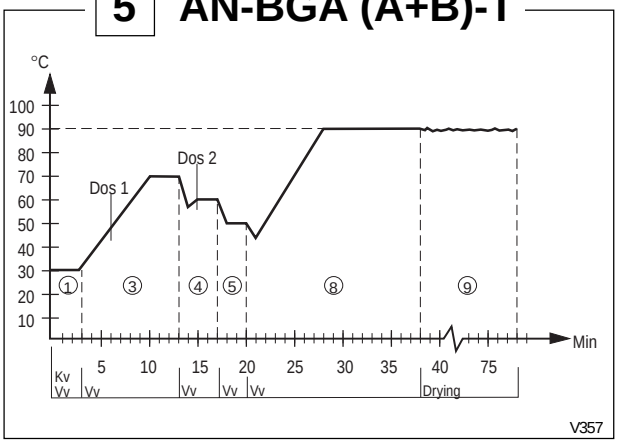
3 OP-BGA (A)



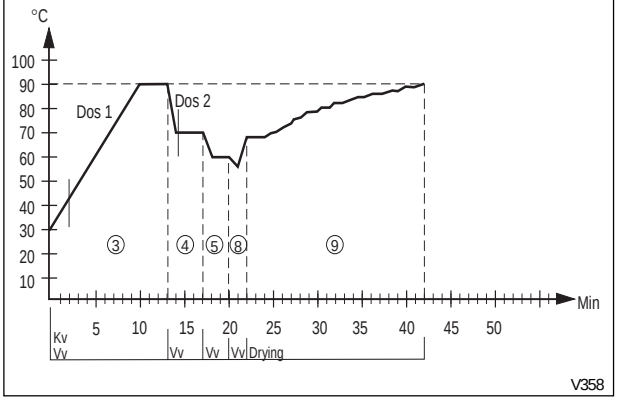
4 OP-BGA (A+B)-T



5 AN-BGA (A+B)-T



6 OP-BGA (A) -SHORT-T



Program phases

①	Initial rinse 1	⑥	After rinse 2
②	Initial rinse 2	⑦	After rinse 3
③	Washing	⑧	Final rinse
④	Neutralizing	⑨	Drying
⑤	After rinse 1		

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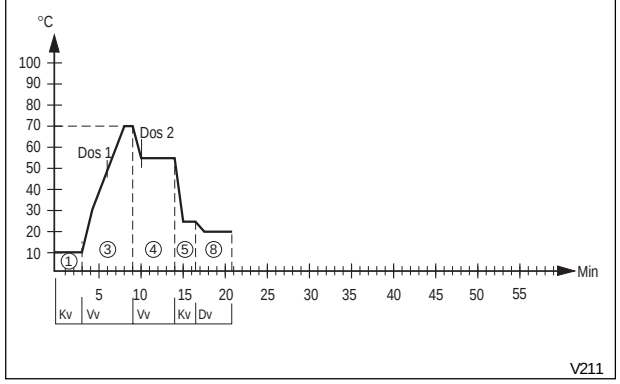
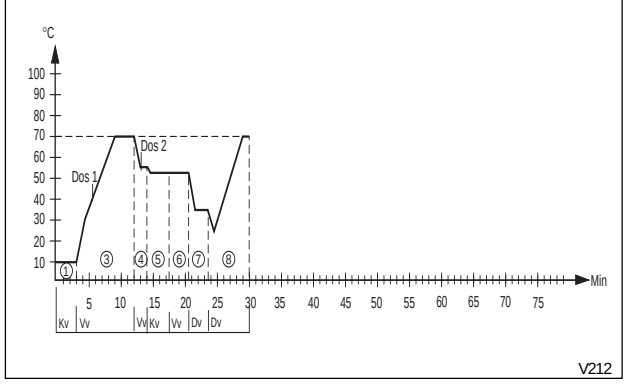
Machine for laboratories, without drying function

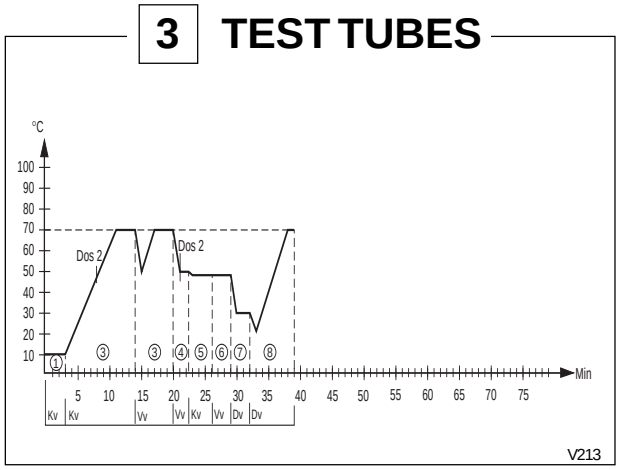
1 SHORT-LAB



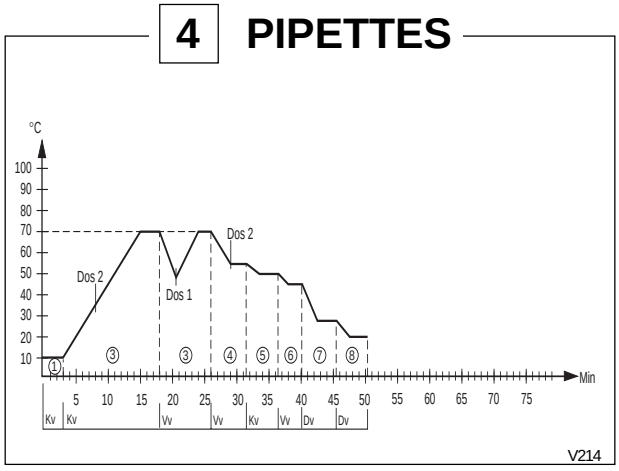
2 LONG-LAB



3 TEST TUBES



4 PIPETTES



5 and 6 Not programmed

Program phases

①	Initial rinse 1	⑥	After rinse 2
②	Initial rinse 2	⑦	After rinse 3
③	Washing	⑧	Final rinse
④	Neutralizing	⑨	Drying
⑤	After rinse 1		

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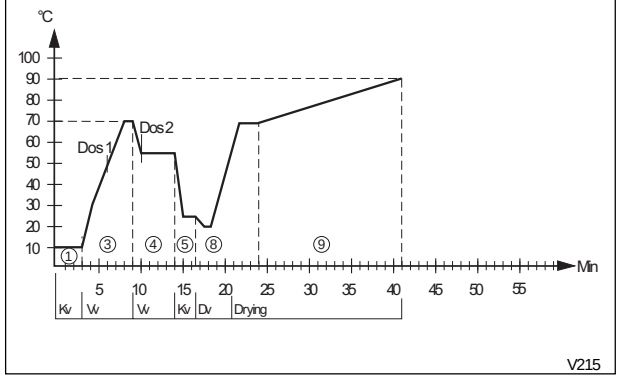
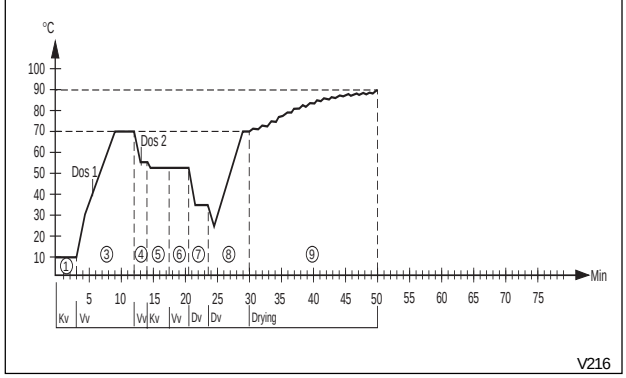
GETINGE DISINFECTION

Machine for laboratories, with drying function

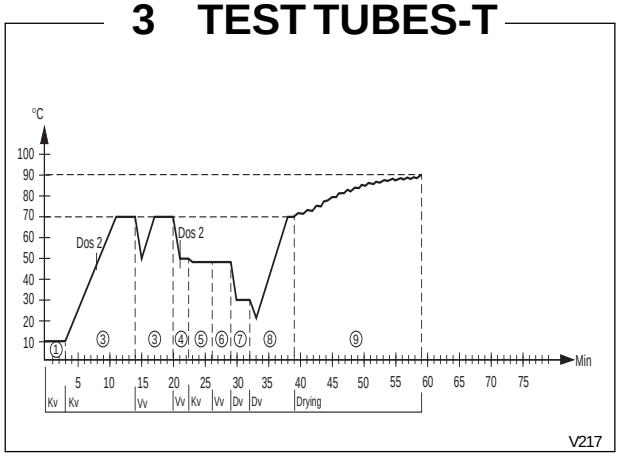
1 SHORT LAB-T



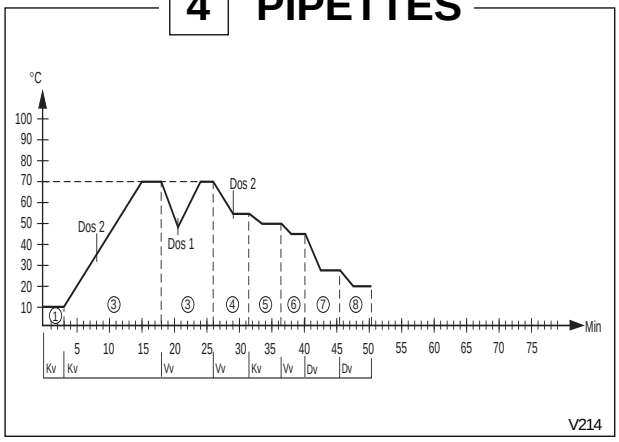
2 LONG LAB-T



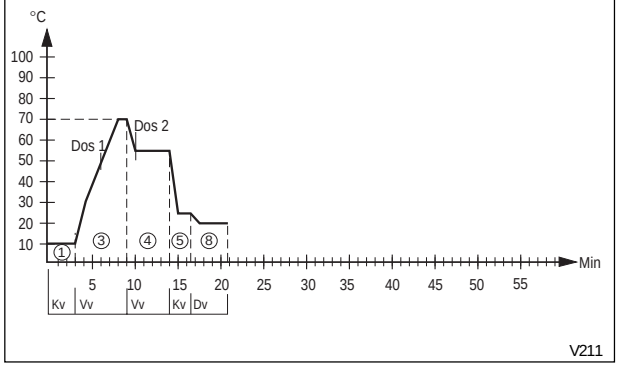
3 TEST TUBES-T



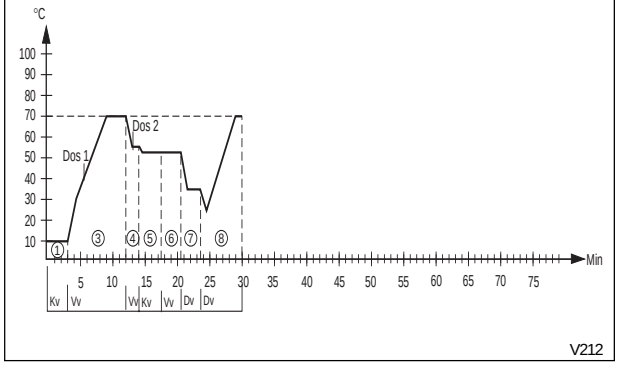
4 PIPETTES



5 SHORT-LAB



6 LONG-LAB



Program phases

①	Initial rinse 1	⑥	After rinse 2
②	Initial rinse 2	⑦	After rinse 3
③	Washing	⑧	Final rinse
④	Neutralizing	⑨	Drying
⑤	After rinse 1		

9803

This product is manufactured by:
GETINGE DISINFECTION AB, Ljungadalsgatan 11, Box 1505, 351 15 Växjö, Sweden

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DISINFECTION